

LIST OF PRIOR ART CITED BY
APPLICANT
SUBSTITUTION FOR
(PTO-1449)

ATTY. DOCKET NO.
CI-0019

APPLN. SERIAL NO.
09/533,547

APPLICANT
Randall S. KENT and Edward HORTON

FILING DATE
March 23, 2000

GROUP
1744

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE
LM	A1	RE 23,195	02/1950	Arno Brasch	—	—	AUG 26 2002
	A2	3,743,480	07/1973	John D. Falk	—	—	
	A3	3,779,706	12/1973	Nablo	—	—	
	A4	4,136,094	01/1979	Condie	—	—	
	A5	4,251,437	02/1981	Rasmussen et al.	—	—	
	A6	4,282,863	08/1981	Beigler et al.	—	—	
	A7	4,330,626	05/1982	Blair et al.	—	—	
	A8	4,336,247	06/1982	Eriksen	—	—	
	A9	4,370,264	01/1983	Kotitschke et al.	—	—	
	A10	4,409,105	10/1983	Hayashi et al.	—	—	
	A11	4,472,840	09/1984	Jefferies	—	—	

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*PATENT APPLN. PUB. NO.	*PUBLICATION DATE	*APPLICANT	CLASS	SUBCLASS	FILING DATE
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U.S. PATENT APPLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*APPLN. NO.	*FILING DATE	*INVENTOR	CLASS	SUBCLASS	
	C1						

FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation
							Yes
LM	D1	310 316	04/1989	Europe	—	—	
LM	D2	919 198 A2	06/1999	Europe (Abstract)	—	—	X
LM	D3	919 198 A3	06/1999	Europe (Abstract)	—	—	X

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*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
LM	E1	Alladine, M.F. et al., γ -Radiation Damage to Starr-Edwards Valves, The Lancet, 1:594 (1968)
LM	E2	Alper, T. et al., Protection by Anoxia of the Scrapie Agent and some DNA and RNA Viruses Irradiated as Dry Preparations, J. Gen. Virol., 3:157-166 (1968)

EXAMINER *Leigh McCane* DATE CONSIDERED *2/24/03*

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LM	A12	4,784,850	11/1988	Abraham	1	—
	A13	4,798,611	01/1989	Freeman Jr.	—	1
	A14	4,865,602	09/1989	Smestad et al.	—	—
	A15	4,931,361	06/1990	Baldeschwieler et al.	—	—
	A16	4,946,648	08/1990	Dichtelmüller et al.	—	—
	A17	4,963,356	10/1990	Calenoff et al.	—	—
	A18	5,000,951	03/1991	Bass et al.	—	—
	A19	5,012,503	04/1991	Nambu et al.	—	—
	A20	5,044,091	09/1991	Ueda et al.	—	—
LM	A21	5,106,619	04/1992	Wiesehahn et al.	—	—

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*EXAMINER'S INITIALS	CITE NO.	*PATENT APPLN. PUB. NO.	*PUBLICATION DATE	*APPLICANT	CLASS	SUBCLASS	FILING DATE
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U.S. PATENT APPLICATIONS

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FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation
							Yes No
LM	D4	11-216147	08/1999	Japan (Abstract)	—	—	X
LM	D5	1321420-A	07/1987	Soviet Union (Abstract)	—	—	X
LM	D6	WO 95/03071	02/1995	PCT Int'l	—	—	

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*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
LM	E3	Alper, T. et al., Protection by Anoxia of the Scrapie Agent and some DNA and RNA Viruses Irradiated as Dry Preparations, J. Gen. Virol., 3:157-166 (1968)
LM	E4	Alper, T. et al., Does the Agent of Scrapie Replicate Without Nucleic Acid?, Nature, 214:764-766 (1967)
LM	E5	Alper, T. et al., The Exceptionally Small Size of the Scrapie Agent, Biochemical and Biophysical Research Communications, 22:278-284 (1966)

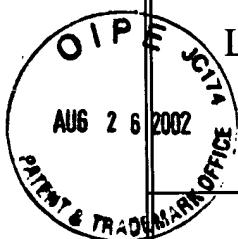
EXAMINER

Leigh McCane

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2/26/03

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LM	A22	5,283,034	02/1994	Okrongly et al.	—	—	
	A23	5,362,442	11/1994	Kent	—	—	
	A24	5,460,962	10/1995	Kemp	—	—	
	A25	5,510,122	04/1996	Sreebny et al.	—	—	
	A26	5,548,066	08/1996	Leneau et al.	—	—	
	A27	5,603,894	02/1997	Aikus et al.	—	—	
	A28	5,609,864	03/1997	Shanbrom	—	—	
	A29	5,637,451	06/1997	Ben-Hur et al.	—	—	
LM	A30	5,643,464	07/1997	Rhee et al.	—	—	

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U.S. PATENT APPLICATIONS

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	C3						

FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation
							Yes No
LM	D7	WO 00/25839	03/2000	PCT Int'l (Abstract)	—	—	X
	D8	WO 01/08611A1	02/2001	PCT Int'l (Abstract)	—	—	X
	D9	WO 01/12318A1	02/2001	PCT Int'l	—	—	
	D10	WO 01/32107A2	05/2001	PCT Int'l (Abstract)	—	—	X
LM	D11	WO 01/32110A2	05/2001	PCT Int'l (Abstract)	—	—	X

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*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
LM	E6	Alper, T. et al., The Scrapie Agent: Evidence Against its Dependence For Replication on Intrinsic Nucleic Acid, J. Gen. Virol., 41:503-516 (1978)
LM	E7	Akkus, O. et al., Fracture Resistance of Gamma Radiation Sterilized Cortical Bone Allografts, J. Orthopaedic Research, 19:927-934 (2001) (Elsevier Science Ltd.)

EXAMINER

L. Maccone

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LM	A31	5,817,528	10/1998	Böhm et al.	—	—	
	A32	5,837,313	11/1998	Ding et al.	—	—	
	A33	5,856,172	01/1999	Greenwood et al.	—	—	
	A34	5,881,534	03/1999	Ahlqvist et al.	—	—	
	A35	5,981,163	11/1999	Horowitz et al.	—	—	
	A36	5,986,168	11/1999	Noishiki	—	—	
	A37	5,989,498	11/1999	Odlund	—	—	
	A38	6,010,719	01/2000	Remon et al.	—	—	
	A39	6,046,024	04/2000	Burton et al.	—	—	
	A40	6,049,025	04/2000	Stone et al.	—	—	
	A41	6,060,233	05/2000	Wiggins	—	—	
LM	A42	6,066,626	05/2000	Yew et al.	—	—	

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U.S. PATENT APPLICATIONS

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	C4						

FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
LM	D12	WO 01/45720A1	06/2001	PCT Int'l (Abstract)	—	—	X	
	D13	WO 01/49219A1	07/2001	PCT Int'l	—	—		
	D14	WO 01/72233A1	10/2001	PCT Int'l (Abstract)	—	—	X	
	D15	WO 01/72244A1	10/2001	PCT Int'l (Abstract)	—	—	X	
LM	D16	WO 01/91818A1	12/2001	PCT Int'l (Abstract)	—	—	X	

OTHER ART

*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
LM	E8	Aparicio, S.R. et al., Light and Electron Microscopy Studies on Homograft and Heterograft Heart Valves, J. Path., 115:147-162 (1975)
LM	E9	Baksa, J. et al., The Use of Pig's Skin (xenograft) for the Treatment of Burns, Magyar Traumatologia, 19:138-145 (1976)

EXAMINER

K. McCane

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LM	A43	6,087,141	07/2000	Margolis-Nunno et al.	✓		
	A44	6,120,592	09/2000	Brault et al.	—	—	
	A45	6,159,490	12/2000	Deghenghi	—	—	
	A46	6,171,549	01/2001	Kent	—	—	
	A47	6,187,572	02/2001	Platz et al.	—	—	
	A48	6,190,855	02/2001	Herman et al.	—	—	
	A49	6,197,207	03/2001	Chapman et al.	—	—	
	A50	6,203,544	03/2001	Gotzen	—	—	
	A51	6,214,534	04/2001	Horowitz et al.	—	—	
	A52	6,235,508	05/2001	Sowemimo-Coker et al.	—	—	
LM	A53	6,258,821	07/2001	Stogniew et al.	—	—	

U.S. PATENT APPLICATION PUBLICATIONS

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U.S. PATENT APPLICATIONS

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	C5						

FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation
							Yes No
	D17						
	D18						
	D19						
	D20						
	D21						

OTHER ART

*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
LM	E10	Baldwin, M.L. et al., Irradiation of Blood Components, pp. 10-78 (1992) (American Association of Blood Banks)
LM	E11	Baquey, C. et al., Radiosterilization of Albuminized Polyester Prostheses, Biomaterials, 8:185-189 (1987)
LM	E12	Bassin, R.H. et al., Abrogation of Fv-1 ^b Restriction With Murine Leukemia Viruses Inactivated by Heat or by Gamma Irradiation, Journal of Virology, 26:306-315 (1978) (American Society for Microbiology)

EXAMINER

R. McCane

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174

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EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
LM	E13	Beauregard, G. et al., Temperature Dependence of the Radiation Inactivation of Proteins, Analytical Biochemistry, 150:117-120 (1985) (Academic Press Inc.)
	E14	Bedrossian Jr., E.H. et al., HIV and Banked Fascia Lata, Ophthalmic Plastic and Reconstructive Surgery, 7:284-288 (1991) (Raven Press Ltd.)
	E15	Belov, A.A. et al., The Influence of γ -Radiation on Enzyme Activity of Collalitin in the Process of Storage, Radiobiologia, 30:519-521(1990)
	E16	Bingci, L., Mouse Antibody Response Following Repetitive Injections of Gamma-Irradiated Human Placenta Collagen, Chinese Medical Sciences Journal, 9:100-103 (1994)
	E17	Blakeslee, S., Lack of Oversight in Tissue Donation Raising Concerns, The New York Times, Late Edition, pp. 1, 22 (January 20, 2002)
	E18	Blanchy, B.B. et al., Immobilization of Factor VIII on Collagen Membranes, J. Biomedical Materials Research, 20:469-479 (1986) (John Wiley & Sons, Inc.)
	E19	Block, S.S., Disinfection, Sterilization, and Preservation,, Fourth Edition, pp.31-33 (1991) (Lea & Febiger) (Philadelphia)
	E20	Bogers, A.J.J.C. et al., Long-Term Results of the Gamma-Irradiation-Preserved Homograft Monocusp for Transannular Reconstruction of the Right-Ventricular Outflow Tract in Tetralogy of Fallot, Thorac. Cardiovasc. Surgeon, 42:337-339 (1994) (Georg Thieme Verlag Stuttgart)
	E21	Borisova, E.A. et al., Protein Degradation During Interphase Death of Thymocytes Induced by Radiation and Dexamethasone, pp.519-521 (1990)
	E22	Boyer, T.D. et al., Radiation Inactivation of Microsomal Glutathione S-Transferase, The Journal of Biological Chemistry, 261:16963-16968 (1986)
	E23	Brown, D.R. et al., Antioxidant Activity Related to Copper Binding of Native Prion Protein, J. Neurochem., 76:69-76 (2001) (Int'l Society for Neurochem.)
	E24	Brown, P. et al., The Distribution of Infectivity in Blood Components and Plasma Derivatives in Experimental Models of Transmissible Spongiform Encephalopathy, Transfusion, 38:810-816 (1998)
	E25	Brown, P. et al., Effect of Chemicals, Heat and Histopathologic Processing on High-Infectivity Hamster-Adapted Scrapie Virus, J. Infectious Diseases, 145:683-687 (1982) (University of Chicago)
	E26	Brown, P. et al., Further Studies of Blood Infectivity in an Experimental Model of Transmissible Spongiform Encephalopathy, With an Explanation of Why Blood Components Do Not Transmit Creutzfeldt-Jakob Disease in Humans, Transfusion, 39:1169-1178 (1999)
	E27	Brown, P., The Risk of Blood-Borne Creutzfeldt-Jakob Disease, Advances in Transfusion Safety Dev. Biol., 102:53-59 (1999)
✓	E28	Burwell, R.G., The Fate of Freeze-Dried Bone Allografts, Transplantation Proceedings, 8(Suppl):95-111 (1976)
	E29	Callegaro, L. et al., Hollow Fiber Immobilized L-Asparaginase: In Vivo and In Vitro Immunological Studies, The International Journal of Artificial Organs, 6:91-96 (1983) (Wichtig Editore)
	E30	Campalani, G. et al., Aortic Valve Replacement With Frozen Irradiated Homografts, Eur. J. Cardiothorac. Surg., 3:558-561 (1989) (Springer-Verlag)
LM ✓	E31	Campbell, D.G. et al., Sterilization of HIV With Irradiation: Relevance to Infected Bone Allografts, Aust. N.Z. J. Surg., 69:517-521 (1999)

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CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)		
E32	Chanderkar, L.P. et al., The Involvement of Aromatic Amino Acids in Biological Activity of Bovine Fibrinogen as Assessed by Gamma-Irradiation, <i>Radiation Research</i> , 65:283-291 (1976) (Academic Press, Inc.)		
E33	Chanderkar, L.P. et al., Radiation-Induced Changes In Purified Prothrombin and Thrombin, <i>Biochimica et Biophysica Acta</i> , 706:1-8 (1982) (Elsevier Biomedical Press)		
E34	Cheung, D. T. et al., The Effect of γ -Irradiation on Collagen Molecules, Isolated α -chains, and Crosslinked Native Fibers, <i>J. Biomedical Materials Research</i> , 24:581-589 (1990) (John Wiley & Sons, Inc.)		
E35	Chin, S. et al., Virucidal Treatment of Blood Protein Products With UVC Radiation, <i>Photochemistry and Photobiology</i> , 65:432-435 (1997) (American Society for Photobiology)		
E36	Chuchalin, A.G. et al., Clinical Immunosorbents Basing on Space-Network Polymers, <i>Bioorg Khim</i> , 14:1524-1529 (1988) (Russia)		
E37	Cohen, D. J. et al., The Fate of Aortic Valve Homografts 12 to 17 Years After Implantation, <i>Chest</i> , 93:482-484 (1988)		
E38	Conrad, E. U. et al., Transmission of the Hepatitis-C Virus by Tissue Transplantation, <i>J. Bone and Joint Surgery</i> , 77-A:214-224 (1995)		
E39	Cornu, O. et al., Effect of Freeze-Drying and Gamma Irradiation on the Mechanical Properties of Human Cancellous Bone, <i>J. Orthopaedic Research</i> , 18:426-431 (2000)		
E40	Dagli, A. S., Correction of Saddle Nose Deformities by Coral Implantation, <i>Eur. Arch. Otorhinolaryngol.</i> , 254:274-276 (1997) (Springer-Verlag)		
E41	De Deyne, P. et al., Some Effects of Gamma Irradiation on Patellar Tendon Allografts, <i>Connective Tissue Research</i> , 27:51-62 (1991) (Gordon and Breach Science Publishers S. A.)		
E42	Di Simplicio, P. et al., The Reactivity of the SH Group of Bovine Serum Albumin With Free Radicals, <i>Free Rad. Res. Commsl.</i> , 14:253-262 (1991) (Harwood Academic Publishers GmbH)		
E43	Donnelly, R.J. et al., Gamma-radiation of Heart Valves at 4°C; A Comparative Study Using Techniques of Histochemistry and Electron and Light Microscopy, <i>Thorax</i> , 28:95-101 (1973)		
E44	Dyskin, E.A. et al., Hemomicrocirculatory Bed in the Wall of Hollow Organs of the Dog Gastrointestinal Tract at Portal Hypertension, <i>Arkh Anat Gistol Embiol</i> , 93:58-68 (1987)		
E45	Dziedzic-Goclawska, A. et al., Effect of Radiation Sterilization on the Osteoinductive Properties and the Rate of Remodeling of Bone Implants Preserved by Lyophilization and Deep-Freezing, <i>Clinical Orthopaedics and Related Research</i> , 272:30-37 (1991)		
E46	Eichler, D.C. et al., Radiation Inactivation Analysis of Enzymes, <i>J. Biological Chemistry</i> , 262:9433-9436 (1987)		
E47	Elliot, L.H. et al., Inactivation of Lassa, Marburg and Ebola Viruses by Gamma Irradiation, <i>J. Clinical Microbiology</i> , 16:704-708 (1982) (American Society for Microbiology)		
E48	Fideler, B. M. et al., Gamma Irradiation: Effects on Biomechanical Properties of Human Bone-Patellar Tendon-Bone Allografts, <i>American Journal of Sports Medicine</i> , 23:643-646 (1995)		
EXAMINER <i>Leigh Malone</i>	DATE CONSIDERED <i>2/24/03</i>		

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LM	E49	Fideler, B.M. et al., Effects of Gamma Irradiation on the Human Immunodeficiency Virus, <i>J. Bone and Joint Surgery</i> , 76-A:1032-1035 (1994) (The Journal of Bone and Joint Surgery, Inc.)
	E50	Field, E.J. et al., Susceptibility of Scrapie Agent to Ionizing Radiation, <i>Nature</i> , 222:90-91 (1969)
	E51	Ghosh, M.M. et al., A Comparison of Methodologies for the Preparation of Human Epidermal-Dermal Composites, <i>Annals of Plastic Surgery</i> , 39:390-404 (1997) (Lippincott-Raven Publishers)
	E52	Gibbons, M.J. et al., Effects of Gamma Irradiation on the Initial Mechanical and Material Properties of Goat Bone-Patellar Tendon-Bone Allografts, <i>J. Orthop Res.</i> , 9:209-218 (1991) (Orthopaedic Research Society)
	E53	Gibbons, J.R.P. et al., Gamma Ray Sterilisation of Homograft Valves, <i>Bulletin De La Societe Internationale De Chirurgie</i> , 3:353-358 (1969)
	E54	Goertzen, M.J. et al., Anterior Cruciate Ligament Reconstruction Using Cryopreserved Irradiated Bone-ACL-Bone-Allograft Transplants, <i>Knee Surg. Sports Traumatol. Arthroscopy</i> , 2:150-157 (1994) (Springer-Verlag)
	E55	Goertzen, M.J. et al., Sterilisation of Canine Anterior Cruciate Allografts by Gamma Irradiation in Argon, <i>J. Bone and Joint Surgery</i> , 77-B:205-212 (1995) (British Editorial Society of Bone and Joint Surgery) (Retracted)
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Randall S. KENT and Edward HORTON

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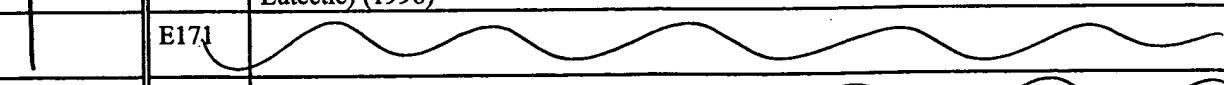
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	E168	Website: www.phase-technologies.com/html/vol.2no2.html , Jennings, T.A., (What I Wish I Knew About Lyophilization) (1999)
	E169	Website: www.phase-technologies.com/html/vol.1no7.html , Jennings, T.A., (Which Shelf Temperature During Lyophilization?) (1998)
	E170	Website: www.phase-technologies.com/html/vol.1no10.html , Jennings, T.A., (Yes, You have no Eutectic) (1998)
LM	E171	
LM	E172	

EXAMINER

Leigh McCone

DATE CONSIDERED

2/21/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.